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Terms: **patno=5885966** ([Edit Search](#))

981557 (08) 5885966 March 23, 1999

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT
5885966

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March 23, 1999

Peptide, immunogenic composition and vaccine or medical preparation, a method to immunise animals against the hormone LHRH, and analogs of the LHRH tandem repeat peptide and their use as vaccine

REISSUE: Reissue Application filed Jun. 6, 2001 (O.G. Oct. 30, 2001) Ex. Gp.: 1654; Re. S.N. 09/876,257, (O.G. October 30, 2001)

APPL-NO: 981557 (08)

FILED-DATE: December 5, 1997

GRANTED-DATE: March 23, 1999

ENGLISH-ABST:

The invention relates to a modified tandem LHRH-peptide vaccine preparation in which the amino acid glycine at position (6) of one or both LHRH decapeptides that constitute the tandem unit is substituted by a dextrorotatory amino acid that contains a side chain to which a carrier compound can be coupled. In addition, the tandem LHRH-peptide can be brought into a tandem-dimer form which is also suitable for producing a vaccine that is effective against LHRH (luteinizing hormone releasing hormone) also referred to as GnRH (gonadotropin-releasing hormone), for immunological castration, to inhibit or affect reproductive functions or to affect behaviour in vertebrates in general and in domesticated animals and man in particular.

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Terms: **patno=5885966** ([Edit Search](#))

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Segments: Appl-no, Applicants-ref, Assign-type, Date, Disclaimer-date, English-abst, English-title, Lit-reex, Reexam-cert, Reexam-litigate, Reissue, Reissue-comment

Date/Time: Wednesday, June 25, 2003 - 8:42 AM EDT

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5885966 or 5,885,966

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5885966 or 5,885,966

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5885966 or 5,885,966

SearchUse connectors to show relation of terms (cat or feline, jane w/3 doe) [more...](#)☒ **Suggest Words and Concepts for Entered Terms**☒ **Restrict Search Using Document Segments**

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[Eclipse™](#) | [History](#) | [Delivery Manager](#) | [Practice Area Pages](#) | [Change Client](#) | [Options](#) | [Feedback](#) | [Signoff](#) | [Help](#)
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Russel Pat. No. 5,885,966
QUESTEL.ORBIT (TM) 1998

25/06/03 14*14*28

**** SS 1: Results 1**

Query/Command : Fil pluspat;us5885966/pn;prt max;st

1 / 1 PLUSPAT - @QUESTEL-ORBIT
 PN - US5885966 A 19990323 [US5885966]
 TI - (A) Peptide, immunogenic composition and vaccine or medical preparation, a method to immunise animals against the hormone LHRH, and analogs of the LHRH tandem repeat peptide and their use as vaccine
 PA - (A) DLO INSTITUUT VOOR DIERHOUDERI (NL)
 PAO - DLO Instituut Voor Dierhouderij En Diergezondheid, [NL]
 IN - (A) OONK HENDRICA BERENDINA (NL); MELOEN ROBERT HANS (NL)
 AP - US98155797 19971205 [1997US-0981557]
 FD - PCT/NL96/00223 19960606 [1996WO-NL00223]
 WO96/40755 19961219 [WO9640755]
 PR - WONL9600223 19960606 [1996WO-NL00223]
 IC - (A) A61K-038/00 C07K-005/00 C07K-007/00
 EC - C07K-007/23
 PCL - ORIGINAL (O) : 514013000; CROSS-REFERENCE (X) : 424185100
 530313000 530402000
 DT - Basic
 CT - WO9011298
 Vaccine, Meloeen et al., vol. 12, No. 8, 1994, pp. 741-746.
 STG - (A) United States patent
 AB - PCT No. PCT/NL96/00223 Sec. 371 Date Dec. 5, 1997 Sec. 102(e) Date Dec. 5, 1997 PCT Filed Jun. 6, 1996 PCT Pub. No. WO96/40755 PCT Pub. Date Dec. 19, 1996The invention relates to a modified tandem LHRH-peptide vaccine preparation in which the amino acid glycine at position (6) of one or both LHRH decapeptides that constitute the tandem unit is substituted by a dextrorotatory amino acid that contains a side chain to which a carrier compound can be coupled. In addition, the tandem LHRH-peptide can be brought into a tandem-dimer form which is also suitable for producing a vaccine that is effective against LHRH (luteinizing hormone releasing hormone) also referred to as GnRH (gonadotropin-releasing hormone), for immunological castration, to inhibit or affect reproductive functions or to affect behaviour in vertebrates in general and in domesticated animals and man in particular.

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File 415:DIALOG Bluesheets(TM) 2003/Jun 25
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\$0.00 Estimated cost File415

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1/39/1

DIALOG(R)File 345:Inpadoc/Fam.& Legal Stat
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17542873

Basic Patent (No,Kind,Date): CA 2221129 AA 19961219 <No. of Patents: 019>

Patent Family:

Patent No	Kind	Date	Applic No	Kind	Date	
AT 205219	E	20010915	EP 96916372	A	19960606	
AU 9659130	A1	19961230	AU 9659130	A	19960606	
AU 710778	B2	19990930	AU 9659130	A	19960606	
BR 9609411	A	19991214	BR 96U9411	A	19960606	
CA 2221129	AA	19961219	CA 2221129	A	19960606	(BASIC)
CA 2221129	C	20020917	CA 2221129	A	19960606	
CN 1187200	A	19980708	CN 96194609	A	19960606	
DE 69615026	C0	20011011	DE 69615026	A	19960606	
DE 69615026	T2	20020214	DE 69615026	A	19960606	
DK 832107	T3	20011119	DK 9696916372	A	19960606	
EP 832107	A1	19980401	EP 96916372	A	19960606	
EP 832107	B1	20010905	EP 96916372	A	19960606	
ES 2163631	T3	20020201	ES 96916372	EP	19960606	
HU 200001431	AB	20010228	HU 20001431	A	19960606	

JP 2002504886	T2	20020212	JP 97500323	A	19960606
US 5885966	A	19990323	US 981557	A	19971205
US 6284733	BA	20010904	US 274048	A	19990322
WO 9640755	A1	19961219	WO 96NL223	A	19960606
RU 2147307	C1	20000410	RU 98100226	A	19960606

Priority Data (No,Kind,Date):

WO 96NL223 W 19960606
 US 477298 A 19950607
 US 476013 A 19950607
 CN 96194609 A 19960606
 WO 96NL223 A 19960606
 US 274048 A 19990322
 US 981557 A1 19971205
 US 477298 B1 19950607
 US 476013 B1 19950607

PATENT FAMILY:

AUSTRIA (AT)

Patent (No,Kind,Date): AT 205219 E 20010915

EIN VERBESSERTES PEPTID, IMMUNOGENE ZUSAMMENSETZUNG UND IMPFSTOFF ODER MEDIZINISCHE PRAEPARATE, EINE METHODE ZUR IMMUNISIERUNG VON TIEREN GEGEN DAS HORMON LHRH UND ANALOGE DES LHRH-TENDEM-REPEAT-PEPTID UND DEREN VERWENDUNG ALS IMPFSTOFF (German)

Patent Assignee: DLO INST VOOR DIERHOUDERIJ EN (NL)

Author (Inventor): MELOEN ROBERT HANS (NL); OONK HENDRICA BERENDINA (NL)

Priority (No,Kind,Date): WO 96NL223 W 19960606; US 477298 A 19950607; US 476013 A 19950607

Applic (No,Kind,Date): EP 96916372 A 19960606

Addnl Info: 832107 20010905

IPC: * C07K-007/23; A61K-039/385

CA Abstract No: * 126(12)156415V

Derwent WPI Acc No: * C 97-052227

Language of Document: German

AUSTRIA (AT)

Legal Status (No,Type,Date,Code,Text):

AT 205219 R 20010915 AT REF CORRESPONDS TO EP-PATENT
 (ENTSPRICHT EP-PATENT)
 EP 832107 P 20010905

AT 205219 R 20020115 AT UEP PUBLICATION OF TRANSLATION
 OF EUROPEAN PATENT SPECIFICATION
 (UEBERSETZUNG DER EUROPAEISCHEN PATENTSCHRIFT
 AUSGEGEBEN)

AUSTRALIA (AU)

Patent (No,Kind,Date): AU 9659130 A1 19961230

AN IMPROVED PEPTIDE, IMMUNOGENIC COMPOSITION AND VACCINE OR MEDICAL PREPARATION, A METHOD TO IMMUNISE ANIMALS AGAINST THE HORMONE LHRH, AND ANALOGS OF THE LHRH TANDEM REPEAT PEPTIDE AND THEIR USE AS VACCINE (English)

Patent Assignee: DLO INSTITUUT VOOR DIERHOUDERIJ

Author (Inventor): MELOEN ROBERT HANS; OONK HENDRICA BERENDINA

Priority (No,Kind,Date): WO 96NL223 W 19960606; US 477298 A 19950607; US 476013 A 19950607

Applic (No,Kind,Date): AU 9659130 A 19960606

IPC: * C07K-007/23; A61K-039/385

CA Abstract No: * 126(12)156415V

Derwent WPI Acc No: * C 97-052227

Language of Document: English

Patent (No,Kind,Date): AU 710778 B2 19990930

AN IMPROVED PEPTIDE, IMMUNOGENIC COMPOSITION AND VACCINE OR MEDICAL

PREPARATION, A METHOD TO IMMUNISE ANIMALS AGAINST THE HORMONE LHRH, AND ANALOGS OF THE LHRH TANDEM REPEAT PEPTIDE AND THEIR USE AS VACCINE (English)

Patent Assignee: STICHTING INST DIERHOUDERIJ

Author (Inventor): MELOEN ROBERT HANS; OONK HENDRICA BERENDINA

Priority (No,Kind,Date): WO 96NL223 W 19960606; US 477298 A 19950607; US 476013 A 19950607

Applic (No,Kind,Date): AU 9659130 A 19960606

IPC: * C07K-007/23; A61K-039/385

CA Abstract No: * 126(12)156415V

Derwent WPI Acc No: * C 97-052227

Language of Document: English

AUSTRALIA (AU)

Legal Status (No,Type,Date,Code,Text):

AU 710778 P 20000203 AU FGA PATENT SEALED (STANDARD PATENT)

BRAZIL (BR)

Patent (No,Kind,Date): BR 9609411 A 19991214

PEPTIDEO, COMPOSICAO, VACINA, E, PROCESSOS PARA INOCULAR UM ANIMAL COM A VACINA, AFETAR UMA OU MAIS CARACTERISTICAS REPRODUTIVAS OU COMPORTAMENTAIS DE UM ANIMAL E IMUNOCASTRAR UM PORCO. (Portugese)

Patent Assignee: STICHTING INST DIERHOUDERIJ (NL)

Author (Inventor): MELOEN ROBERT HANS; OONK HENDRICA BERENDINA

Priority (No,Kind,Date): WO 96NL223 W 19960606; US 476013 A 19950607; US 477298 A 19950607

Applic (No,Kind,Date): BR 96U9411 A 19960606

IPC: * C07K-007/23; A61K-039/385

CA Abstract No: * 126(12)156415V

Derwent WPI Acc No: * C 97-052227

Language of Document: Portugese

CANADA (CA)

Patent (No,Kind,Date): CA 2221129 AA 19961219

AN IMPROVED PEPTIDE, IMMUNOGENIC COMPOSITION AND VACCINE OR MEDICAL PREPARATION, A METHOD TO IMMUNISE ANIMALS AGAINST THE HORMONE LHRH, AND ANALOGS OF THE LHRH TANDEM REPEAT PEPTIDE AND THEIR USE AS VACCINE (English; French)

Patent Assignee: DLO INSTITUUT VOOR DIERHOUDERI (NL)

Author (Inventor): OONK HENDRICA BERENDINA (NL); MELOEN ROBERT HANS (NL)

Priority (No,Kind,Date): WO 96NL223 W 19960606; US 477298 A 19950607; US 476013 A 19950607

Applic (No,Kind,Date): CA 2221129 A 19960606

IPC: * C07K-007/23; A61K-039/00; C07K-019/00; A61K-039/385

CA Abstract No: * 126(12)156415V

Derwent WPI Acc No: * C 97-052227

Language of Document: English

Patent (No,Kind,Date): CA 2221129 C 20020917

AN IMPROVED PEPTIDE, IMMUNOGENIC COMPOSITION AND VACCINE OR MEDICAL PREPARATION, A METHOD TO IMMUNISE ANIMALS AGAINST THE HORMONE LHRH, AND ANALOGS OF THE LHRH TANDEM REPEAT PEPTIDE AND THEIR USE AS VACCINE (English; French)

Patent Assignee: DLO INST VOOR DIERHOUDERIJ (NL)

Author (Inventor): OONK HENDRICA BERENDINA (NL); MELOEN ROBERT HANS (NL)

Priority (No,Kind,Date): WO 96NL223 W 19960606; US 477298 A 19950607; US 476013 A 19950607

Applic (No,Kind,Date): CA 2221129 A 19960606

IPC: * C07K-007/23; A61K-039/00; C07K-019/00; A61K-039/385

CA Abstract No: * 126(12)156415V

Derwent WPI Acc No: * C 97-052227
Language of Document: English

CANADA (CA)

Legal Status (No,Type,Date,Code,Text):

CA 2221129 P 19971202 CA REFW CORRESPONDS TO PCT
APPLICATION (ENTSPRICHT PCT ANMELDUNG)
WO 9640755 P

CHINA (CN)

Patent (No,Kind,Date): CN 1187200 A 19980708

AN IMPROVED PEPTIDE IMMUNOGENIC COMPOSITION AND VACCINE OR MEDICAL
PREPARATION. METHOD TO IMMUNISE ANIMALS AGAINST HORMONS LHRH AND
ALALOGS OF LHRH TANDEM REPEAT PEPTIDE (English)

Patent Assignee: DLO INSTITUUT VOOR DIERHOUDERI (NL)

Author (Inventor): MELONE ROBERT HANS (NL); OONK HENDRICA BERENDINA
(NL)

Priority (No,Kind,Date): CN 96194609 A 19960606; US 476013 A
19950607

Applic (No,Kind,Date): CN 96194609 A 19960606

IPC: * C07K-007/23; A61K-039/385

CA Abstract No: * 126(12)156415V

Derwent WPI Acc No: * C 97-052227

Language of Document: Chinese

GERMANY (DE)

Patent (No,Kind,Date): DE 69615026 CO 20011011

EIN VERBESSERTES PEPTID, IMMUNOGENE ZUSAMMENSETZUNG UND IMPFSTOFF ODER
MEDIZINISCHE PRAEPARATE, EINE METHODE ZUR IMMUNISIERUNG VON TIEREN
GEGEN DAS HORMON LHRH UND ANALOGE DES LHRH-TENDEM-REPEAT-PEPTID UND
DEREN VERWENDUNG ALS IMPFSTOFF (German)

Patent Assignee: DLO INST VOOR DIERHOUDERIJ EN (NL)

Author (Inventor): MELOEN HANS (NL); OONK BERENDINA (NL)

Priority (No,Kind,Date): WO 96NL223 W 19960606; US 477298 A
19950607; US 476013 A 19950607

Applic (No,Kind,Date): DE 69615026 A 19960606

IPC: * C07K-007/23; A61K-039/385

CA Abstract No: * 126(12)156415V

Derwent WPI Acc No: * C 97-052227

Language of Document: German

Patent (No,Kind,Date): DE 69615026 T2 20020214

EIN VERBESSERTES PEPTID, IMMUNOGENE ZUSAMMENSETZUNG UND IMPFSTOFF ODER
MEDIZINISCHE PRAEPARATE, EINE METHODE ZUR IMMUNISIERUNG VON TIEREN
GEGEN DAS HORMON LHRH UND ANALOGE DES LHRH-TENDEM-REPEAT-PEPTID UND
DEREN VERWENDUNG ALS IMPFSTOFF (German)

Patent Assignee: DLO INST VOOR DIERHOUDERIJ EN (NL)

Author (Inventor): MELOEN HANS (NL); OONK BERENDINA (NL)

Priority (No,Kind,Date): WO 96NL223 W 19960606; US 477298 A
19950607; US 476013 A 19950607

Applic (No,Kind,Date): DE 69615026 A 19960606

IPC: * C07K-007/23; A61K-039/385

CA Abstract No: * 126(12)156415V

Derwent WPI Acc No: * C 97-052227

Language of Document: German

GERMANY (DE)

Legal Status (No,Type,Date,Code,Text):

DE 69615026 P 20011011 DE REF CORRESPONDS TO (ENTSPRICHT)

EP 832107 P 20011011

DE 69615026 P 20020214 DE 8373 TRANSLATION OF PATENT
DOCUMENT OF EUROPEAN PATENT WAS RECEIVED AND
HAS BEEN PUBLISHED (UEBERSETZUNG DER

PATENTSCHRIFT DES EUROPÄISCHEN PATENTES IST
EINGEGANGEN UND VERÖFFENTLICHT WORDEN)
DE 69615026 P 20021002 DE 8364 NO OPPOSITION DURING TERM OF
OPPOSITION (EINSPRUCHSFRIST ABGELAUFEN OHNE
DASS EINSPRUCH ERHOBEN WURDE)

DENMARK (DK)

Patent (No,Kind,Date): DK 832107 T3 20011119
FORBEDRET PEPTID, IMMUNOGEN SAMMENSAETNING OG VACCINE ELLER MEDICINSK
PRAEPARAT, FREMGANGSMAADE TIL IMMUNISERING AF DYR MOD HORMONET LHRH
SAMT ANALOGE AF LHRH-TANDEMPEPTID-GENTAGELSESPeptidet OG DERES
ANDVENDELSE SOM VACCINE (Danish)
Patent Assignee: DLO INST VOOR DIERHOUDERIJ EN (NL)
Author (Inventor): MELOEN ROBERT HANS (NL); OONK HENDRICA BERENDINA
(NL)
Priority (No,Kind,Date): WO 96NL223 W 19960606; US 476013 A
19950607; US 477298 A 19950607
Applic (No,Kind,Date): DK 9696916372 A 19960606
IPC: * C07K-007/23; A61K-039/385
CA Abstract No: * 126(12)156415V
Derwent WPI Acc No: * C 97-052227
Language of Document: Danish

EUROPEAN PATENT OFFICE (EP)

Patent (No,Kind,Date): EP 832107 A1 19980401
AN IMPROVED PEPTIDE, IMMUNOGENIC COMPOSITION AND VACCINE OR MEDICAL
PREPARATION, A METHOD TO IMMUNISE ANIMALS AGAINST THE HORMONE LHRH,
AND ANALOGS OF THE LHRH TANDEM REPEAT PEPTIDE AND THEIR USE AS
VACCINE (English; French; German)
Patent Assignee: DLO INSTITUUT VOOR DIERHOUDERI (NL)
Author (Inventor): MELOEN ROBERT HANS (NL); OONK HENDRICA BERENDINA
(NL)
Priority (No,Kind,Date): WO 96NL223 W 19960606; US 477298 A
19950607; US 476013 A 19950607
Applic (No,Kind,Date): EP 96916372 A 19960606
Designated States: (National) AT; BE; CH; DE; DK; ES; FR; GB; IT; LI;
LU; NL; SE
IPC: * C07K-007/23; A61K-039/385
CA Abstract No: * 126(12)156415V
Derwent WPI Acc No: * C 97-052227
Language of Document: English

Patent (No,Kind,Date): EP 832107 B1 20010905
AN IMPROVED PEPTIDE, IMMUNOGENIC COMPOSITION AND VACCINE OR MEDICAL
PREPARATION, A METHOD TO IMMUNISE ANIMALS AGAINST THE HORMONE LHRH,
AND ANALOGS OF THE LHRH TANDEM REPEAT PEPTIDE AND THEIR USE AS
VACCINE (English; French; German)
Patent Assignee: DLO INST VOOR DIERHOUDERIJ EN (NL)
Author (Inventor): MELOEN ROBERT HANS (NL); OONK HENDRICA BERENDINA
(NL)
Priority (No,Kind,Date): WO 96NL223 W 19960606; US 477298 A
19950607; US 476013 A 19950607
Applic (No,Kind,Date): EP 96916372 A 19960606
Designated States: (National) AT; BE; CH; DE; DK; ES; FR; GB; IT; LI;
LU; NL; SE
IPC: * C07K-007/23; A61K-039/385
CA Abstract No: * 126(12)156415V
Derwent WPI Acc No: * C 97-052227
Language of Document: English

EUROPEAN PATENT OFFICE (EP)

Legal Status (No,Type,Date,Code,Text):

EP 832107 P 19950607 EP AA PRIORITY (PATENT

		APPLICATION)	(PRIORITAET (PATENTANMELDUNG))
EP 832107	P	US 476013 A 19950607 19950607 EP AA PRIORITY (PATENT APPLICATION) (PRIORITAET (PATENTANMELDUNG))	
EP 832107	P	US 477298 A 19950607 19960606 EP AA PCT-APPLICATION (PCT-ANMELDUNG)	
EP 832107	P	WO 96NL223 W 19960606 19960606 EP AE EP-APPLICATION (EUROPAEISCHE ANMELDUNG)	
EP 832107	P	EP 96916372 A 19960606 19980401 EP AK DESIGNATED CONTRACTING STATES IN AN APPLICATION WITH SEARCH REPORT: (IN EINER ANMELDUNG BENANNT VERTRAGSSTAATEN)	
EP 832107	P	AT BE CH DE DK ES FR GB IT LI LU NL SE 19980401 EP A1 PUBLICATION OF APPLICATION WITH SEARCH REPORT (VEROEFFENTLICHUNG DER ANMELDUNG MIT RECHERCHENBERICHT)	
EP 832107	P	19980401 EP 17P REQUEST FOR EXAMINATION FILED (PRUEFUNGSANTRAG GESTELLT) 971205	
EP 832107	P	19991117 EP 17Q FIRST EXAMINATION REPORT (ERSTER PRUEFUNGSBESCHEID) 19991004	
EP 832107	P	20010905 EP AK DESIGNATED CONTRACTING STATES MENTIONED IN A PATENT SPECIFICATION: (IN EINER PATENTENSCHRIFT ANGEFUEHRTE BENANNT VERTRAGSSTAATEN)	
EP 832107	P	AT BE CH DE DK ES FR GB IT LI LU NL SE 20010905 EP B1 PATENT SPECIFICATION (PATENTENSCHRIFT)	
EP 832107	P	20010905 EP REF IN AUSTRIA REGISTERED AS: (IN AT EINGETRAGEN ALS:) AT 205219 R 20010915	
EP 832107	P	20010914 CH EP/REG ENTRY IN THE NATIONAL PHASE (EINTRITT IN DIE NATIONALE PHASE)	
EP 832107	P	20010914 CH EP/REG ENTRY IN THE NATIONAL PHASE (EINTRITT IN DIE NATIONALE PHASE)	
EP 832107	P	20011011 EP REF CORRESPONDS TO: (ENTSPRICHT) DE 69615026 P 20011011	
EP 832107	P	20011119 DK T3/REG TRANSLATION OF EP PATENT	
EP 832107	P	20011214 EP ET FR: TRANSLATION FILED (FR: TRADUCTION A ETE REMISE)	
EP 832107	P	20020101 GB IF02/REG EUROPEAN PATENT IN FORCE AS OF 2002-01-01	
EP 832107	P	20020201 ES FG2A/REG DEFINITIVE PROTECTION (PROTECCION DEFINITIVA) 2163631T3	
EP 832107	P	20020828 EP 26N NO OPPOSITION FILED (KEIN EINSRUCH EINGELEGT)	
EP 832107	P	20030501 EP NLS NL: ASSIGNMENTS OF EP-PATENTS (NL: MEDEDELINGEN VAN OVERDRACHT VAN EUROPESE OCTROOIEN) PEPSAN SYSTEMS B.V.	

SPAIN (ES)

Patent (No,Kind,Date): ES 2163631 T3 20020201
UN PEPTIDO MEJORADO, COMPOSICION INMUNOGENICA Y VACUNA O PREPARACION

MEDICA, UN PROCEDIMIENTO PARA INMUNIZAR A LOS ANIMALES CONTRA LA HORMONA LHRH, ANALOGOS DEL PEPTIDO LHRH REPETIDOS EN TANDEM Y SU USO COMO VACUNA. (Spanish)

Patent Assignee: DLO INST VOOR DIERHOUDERIJ EN

Author (Inventor): MELOEN ROBERT HANS (NL); OONK HENDRICA BERENDINA (NL)

Priority (No,Kind,Date): US 477298 A 19950607; US 476013 A 19950607

Applic (No,Kind,Date): ES 96916372 EP 19960606

Addnl Info: 832107 EP patent valid in AT

IPC: * C07K-007/23; A61K-039/385

CA Abstract No: * 126(12)156415V

Derwent WPI Acc No: * C 97-052227

Language of Document: Spanish

SPAIN (ES)

Legal Status (No,Type,Date,Code,Text):

ES 2163631 P 20020201 ES FG2A DEFINITIVE PROTECTION
(PROTECCION DEFINITIVA)
832107

HUNGARY (HU)

Patent (No,Kind,Date): HU 200001431 AB 20010228

AN IMPROVED PEPTIDE, IMMUNOGENIC COMPOSITION AND VACCINE OR MEDICAL PREPARATION, A METHOD TO IMMUNISE ANIMALS AGAINST THE HORMONE LHRH, AND ANALOGS OF THE LHRH TANDEM REPEAT PEPTIDE AND THEIR USE AS VACCINE (English)

Patent Assignee: STICHTING INST VOOR DIERHOUDER (NL)

Author (Inventor): MELOEN ROBERT HANS (NL); OONK HENDRICA BERENDINA (NL)

Priority (No,Kind,Date): US 477298 A 19950607; US 476013 A 19950607

Applic (No,Kind,Date): HU 20001431 A 19960606

IPC: * C07K-007/23

CA Abstract No: * 126(12)156415V

Derwent WPI Acc No: * C 97-052227

Language of Document: Hungarian

JAPAN (JP)

Patent (No,Kind,Date): JP 2002504886 T2 20020212

Priority (No,Kind,Date): WO 96NL223 W 19960606; US 476013 A 19950607; US 477298 A 19950607

Applic (No,Kind,Date): JP 97500323 A 19960606

IPC: * C07K-007/23; A01K-067/00; A61K-039/00; A61K-039/385; A61K-039/39; A61P-015/00

CA Abstract No: * 126(12)156415V

Derwent WPI Acc No: * C 97-052227

Language of Document: Japanese

RUSSIA (RU)

Patent (No,Kind,Date): RU 2147307 C1 20000410

IMPROVED PEPTIDE, IMMUNOGENIC COMPOSITION AND VACCINE USING THE PEPTIDE AND METHOD FOR IMMUNIZING ANIMALS AGAINST LUTEINIZING HORMONE-RELEASING HORMONE (English)

Patent Assignee: STIKHTING INSTITJUT VOR DIRKHA (NL); KHEJD (NL)

Author (Inventor): ROBERT KHANS MELUN (NL); KHENDRIKA BERENDINA ONK (NL)

Priority (No,Kind,Date): WO 96NL223 W 19960606; US 477298 A 19950607; US 476013 A 19950607

Applic (No,Kind,Date): RU 98100226 A 19960606

IPC: * C07K-007/23; A61K-039/385

CA Abstract No: * 126(12)156415V

Derwent WPI Acc No: * C 97-052227

Language of Document: Russian

UNITED STATES OF AMERICA (US)

Patent (No,Kind,Date): US 5885966 A 19990323

PEPTIDE, IMMUNOGENIC COMPOSITION AND VACCINE OR MEDICAL PREPARATION, A METHOD TO IMMUNIZE ANIMALS AGAINST THE HORMONE LHRH, AND ANALOGS OF THE LHRH TANDEM REPEAT PEPTIDE AND THEIR USE AS VACCINE (English)

Patent Assignee: DLO INSTITUUT VOOR DIERHOUDERI (NL)

Author (Inventor): MELOEN ROBERT HANS (NL); OONK HENDRICA BERENDINA (NL)

Priority (No,Kind,Date): WO 96NL223 A 19960606

Applic (No,Kind,Date): US 981557 A 19971205

National Class: * 514013000; 530402000; 530313000; 424185100

IPC: * A61K-038/00; C07K-005/00; C07K-007/00

CA Abstract No: * 126(12)156415V

Derwent WPI Acc No: * C 97-052227

Language of Document: English

Patent (No,Kind,Date): US 6284733 BA 20010904

PEPTIDE, IMMUNOGENIC COMPOSITION AND VACCINE OR MEDICAL PREPARATION, A METHOD TO IMMUNIZE ANIMALS AGAINST THE HORMONE LHRH, AND ANALOGS OF THE LHRH TANDEM REPEAT PEPTIDE AND THEIR USE AS VACCINE (English)

Patent Assignee: DLO INST VOOR DIERHOUDERIJ EN (US)

Author (Inventor): MELOEN ROBERT HANS (NL); OONK HENDRICA BERENDINA (NL)

Priority (No,Kind,Date): US 274048 A 19990322; US 981557 A1

19971205; US 477298 B1 19950607; US 476013 B1 19950607

Applic (No,Kind,Date): US 274048 A 19990322

Addnl Info: 5885966 Patented

National Class: * 514013000; 514010000; 514011000; 530300000; 530313000; 530326000; 530402000; 424185100

IPC: * A61K-038/00; C07K-005/00; C07K-007/00

CA Abstract No: * 126(12)156415V

Derwent WPI Acc No: * C 97-052227

Language of Document: English

UNITED STATES OF AMERICA (US)

Legal Status (No,Type,Date,Code,Text):

US 97981557	A	19971205	US REFW	CORRESPONDS TO PCT APPLICATION (ENTSPRICHT PCT ANMELDUNG)
			WO 9640755	P
US 5885966	P	19960606	US AA	PRIORITY (PATENT)
			WO 96NL223	A 19960606
US 5885966	P	19971205	US AE	APPLICATION DATA (PATENT)
			(APPL. DATA (PATENT))	
			US 981557	A 19971205
US 5885966	P	19971205	US AS02	ASSIGNMENT OF ASSIGNOR'S INTEREST
			STICHTING INSTITUUT VOOR DIERHOUDERIJ EN DIERGEZONDHEID EDELHERTWEG 15 8219 PH L ; MELOEN, ROBERT HANS : 19971110; OONK, HENDRICA : 19971110	
US 5885966	P	19990323	US A	PATENT
US 5885966	P	20011030	US RF	REISSUE APPLICATION FILED (REISSUE APPL. FILED)
			20010606	
US 6284733	P	19950607	US AA	PRIORITY
			US 476013	B1 19950607
US 6284733	P	19950607	US AA	PRIORITY
			US 477298	B1 19950607
US 6284733	P	19971205	US AA	PRIORITY (CONTINUATION)
			US 981557	A1 19971205

US 6284733 P 19990322 US AE APPLICATION DATA (PATENT)
 (APPL. DATA (PATENT))
 US 274048 A 19990322
 US 6284733 P 20010904 US BA PATENT (NO PREVIOUS
 PRE-GRANT PUBLICATION)

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Patent (No,Kind,Date): WO 9640755 A1 19961219

AN IMPROVED PEPTIDE, IMMUNOGENIC COMPOSITION AND VACCINE OR MEDICAL
 PREPARATION, A METHOD TO IMMUNISE ANIMALS AGAINST THE HORMONE LHRH,
 AND ANALOGS OF THE LHRH TANDEM REPEAT PEPTIDE AND THEIR USE AS
 VACCINE (English)

Patent Assignee: DLO INSTITUUT VOOR DIERHOUDERI (NL); MELOEN ROBERT
 HANS (NL); OONK HENDRICA BERENDINA (NL)

Author (Inventor): MELOEN ROBERT HANS (NL); OONK HENDRICA BERENDINA
 (NL)

Priority (No,Kind,Date): US 477298 A 19950607; US 476013 A
 19950607

Applic (No,Kind,Date): WO 96NL223 A 19960606

Designated States: (National) AL; AM; AT; AU; AZ; BB; BG; BR; BY; CA;
 CH; CN; CZ; DE; DK; EE; ES; FI; GB; GE; HU; IL; IS; JP; KE; KG; KP;
 KR; KZ; LK; LR; LS; LT; LU; LV; MD; MG; MK; MN; MW; MX; NO; NZ; PL;
 PT; RO; RU; SD; SE; SG; SI; SK; TJ; TM; TR; TT; UA; UG; US; UZ; VN;
 AM; AZ; BY; KG; KZ; MD; RU; TJ; TM (Regional) KE; LS; MW; SD; SZ;
 UG; AT; BE; CH; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT;
 SE; BF; BJ; CF; CG; CI; CM; GA

Filing Details: WO 130000 With international search report; Before
 expiration of time limit for amending the claims and to be
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CA Abstract No: * 126(12)156415V; 126(12)156415V

Derwent WPI Acc No: * C 97-052227; C 97-052227

Language of Document: English

WORLD INTELLECTUAL PROPERTY ORGANIZATION, PCT (WO)

Legal Status (No,Type,Date,Code,Text):

WO 9640755 P 19950607 WO AA PRIORITY (PATENT)
 US 476013 A 19950607

WO 9640755 P 19950607 WO AA PRIORITY (PATENT)
 US 477298 A 19950607

WO 9640755 P 19960606 WO AE APPLICATION DATA (APPL.
 DATA)

WO 9640755 P 19961219 WO AK DESIGNATED STATES CITED IN A
 PUBLISHED APPLICATION WITH SEARCH REPORT
 (DESIGNATED STATES CITED IN A PUBLISHED APPL.
 WITH SEARCH REPORT)

AL AM AT AU AZ BB BG BR BY CA CH CN CZ DE DK
 EE ES FI GB GE HU IL IS JP KE KG KP KR KZ LK
 LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT
 RO RU SD SE SG SI SK TJ TM TR TT UA UG US UZ
 VN AM AZ BY KG KZ MD RU TJ TM

WO 9640755 P 19961219 WO AL DESIGNATED COUNTRIES FOR
 REGIONAL PATENTS CITED IN A PUBLISHED
 APPLICATION WITH SEARCH REPORT (DESIGNATED
 COUNTRIES FOR REGIONAL PATENTS CITED IN A
 PUBLISHED APPL. WITH SEARCH REPORT)

KE LS MW SD SZ UG AT BE CH DE DK ES FI FR GB
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WO 9640755 P 19961219 WO A1 PUBLICATION OF THE
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Russel Pat. No. 5,885,966 11

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WO 9640755	P	19970306 WO DFPE REQUEST FOR PRELIMINARY EXAMINATION FILED PRIOR TO EXPIRATION OF 19TH MONTH FROM PRIORITY DATE	
WO 9640755	P	19970416 WO 121 EP: PCT APP. ART. 158 (1) (EP: PCT ANM. ART. 158 (1))	
WO 9640755	P	19971202 WO ENP ENTRY INTO THE NATIONAL PHASE IN: CA 2221129 AA	
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WO 9640755	P	19980409 DE 8642/REG WITHDRAWAL (ZURUECKNAHME)	

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